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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

PWU, JEFFREY C

ART UNIT	PAPER NUMBER
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2143

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/929,743

Applicant(s)

TRAN ET AL.

Examiner

Jeffrey Pwu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being unpatentable over Schwartz et al. (US. 6,473,609).

Schwartz et al. disclose claims :

Claims: 1. A wireless server system comprising:

a plurality of extensible hierarchical file modules (310), each providing respective identifying file parameters pertinent to a type of wireless client; and a file manager service (315), in response to receiving a particular client type associated with a particular wireless client for dynamically selecting files in said plurality of hierarchical file modules based on said particular client type, wherein said file manager service is also for applying a selected file module to said particular wireless client for identification thereof (fig. 3A)

2. The wireless server system of Claim 1, further comprising an automatic client aware detention service for automatically detecting client specific files in response to service requests that originate from said particular wireless client (col.5, line27-col.7, line 33).
3. The wireless server system of Claim 2, wherein information found with the client service request comprises file information unique to a particular class of clients or said particular client (figs. 3A-3B)
4. The wireless server system of Claim 1, wherein said plurality of file modules are arranged to form a hierarchical file path with client data generic to a particular class of client information at the top-most level of the hierarchy (figs. 7A-7G).

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5. The wireless server system of Claim 4, wherein said hierarchical file path has, at its lowest level, client file information unique to a particular client to differentiate said particular client from others within said class of clients (figs. 7A-7G).

6. The wireless server system of Claim 5, wherein said file manager traverses said hierarchical file path to retrieve client aware specific files in response to client file request without said client having to provide the entire file path of the file to be retrieved (figs. 8-9).

7. A client aware hierarchical file manager system in a wireless network, comprising:

a wireless server (col.7, lines 9-col.8, line 43; "Link server 300 includes a landnet communication protocol (LCP) interface 302 that couples to landnet 304, and a wireless communication protocol (WCP) interface 306 that couples to a wireless network 308 via a carrier's infrastructure");

a plurality of a classes of wireless clients, each having unique file parameters; and
an extensible file manager service for providing a file storage and retrieval procedure in response to file accesses requests from said wireless clients (300, 310).

8. The client aware file manager system of Claim 7, wherein said file manager service comprises a plurality of extensible hierarchical file modules having dynamic file addition attributes to dynamically add client specific files to existing file system structure in said wireless sever during said client's run-time (310).

9. The client aware file manager system of Claim 8, wherein the file manager service further comprises a file selector for selectively traversing said extensible hierarchical file modules to retrieve files based on client type information of a client accessing the wireless server (col.5, line 27-col.7, line 33)

10. The client aware file management system of Claim 9, wherein said file manager service receives and parses service requests from the wireless clients to determine the file path to the file being requested by the wireless clients (300; 310)

11. The client aware file management system of Claim 10, wherein the plurality of extensible hierarchical file modules include a set of predefined file parameters generic to clients within a class of wireless clients used by the wireless server to identify said clients with known file characteristics accessing the wireless server (claim 48).

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12. The client aware file management system of Claim 9, wherein the wireless file server includes a file system structure capable of being dynamically updated with client file information during said client's run-time (300).

13. A wireless server, comprising:

a client aware file manager service for providing file storage and retrieval service to a plurality of wireless clients accessing the wireless server (300); and

a plurality of client aware hierarchical file modules for hierarchically storing file characteristics pertinent to a particular client and a class of clients within said plurality of wireless clients (col.7, lines 9-col.8, line 43; "Link server 300 includes a landnet communication protocol (LCP) interface 302 that couples to landnet 304, and a wireless communication protocol (WCP) interface 306 that couples to a wireless network 308 via a carrier's infrastructure");

a client data storage for storing client type information (354); and

a session service logic for storing transient session information for said clients accessing said wireless server (306).

14. The wireless server of Claim 13, wherein said plurality hierarchical file modules are extensible to allow dynamic file addition of client attributes to existing file system structure in said wireless sever during said client's run-time (col.5, line 27-col.7, line 33)

15. The wireless server of Claim 13, wherein the file manager service further comprises a file selector for selectively traversing said hierarchical file module to retrieve files based on client type information of a client accessing the wireless server (354; fig.3B).

16. The wireless server of Claim 15, wherein said file manager service receives and parses service requests from the wireless clients to determine the file path to the file being requested by the wireless clients (352)

17. The wireless server of Claim 16, wherein the plurality of hierarchical file modules comprise a set of predefined file parameters generic to clients within a class of wireless clients used by the wireless server to identify said clients with known file characteristics accessing the wireless server (fig.4).

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18. The wireless server of Claim 16, wherein the file manager module comprise file selection logic to selectively retrieve files from file system structure in the wireless server in response to a client service request (114).

19. The wireless server of Claim 16, wherein said client service request includes hyper text transport protocol request headers ("Link server 300 further comprises a server module 310 coupled between LCP interface 302 and WCP interface 306. Server module 310, which is typically loaded in a memory, performs traditional server processing as well as protocol conversion processing from one communication protocol to another communication protocol. In particular, the protocol conversion processing includes protocol conversion between HDTP/UDP and HTTP/TCP according to one embodiment.").

20. The wireless server of Claim 16, wherein said client service request includes client equipment manufacturer specific headers (fig.4).

21. The wireless server of Claim 20, wherein the client service request includes programmable user specified headers (fig.4).

22. A client aware file management service, comprising
a plurality of client aware file characteristics modules; and client aware file selection logic (col. 8, line 46-col.9, line 5).

23. The client aware file management service of Claim 22, wherein said plurality of client aware file characteristics modules comprise a predefined set of client files for defining known clients accessing the client aware file management modules (310)

24. The client aware authentication module of Claim 22, wherein said plurality of client aware file characteristics modules comprise client characteristics dynamically extracted from the clients run-time environment (col.5, line 27-col.7, line 33).

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Pwu whose telephone number is 571 272-6798. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571 272-3923. Information regarding the status of an application may

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be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thursday, October 28, 2004

JEFFREY PWU
PRIMARY EXAMINER